

Product Bulletin

August/September 2012

For Blasting and Painting Specialists



INSIDE

- ▶ Increase Blasting Productivity 2
- ▶ AirPrep 30-Day FREE Trial 3
- ▶ Steel Grit vs SpeedBlast 4-5
- ▶ August/September Specials Back Page



Do you want to know how a blaster finished his 5 day job 2 days faster?

With no corners cut!

When Eddie bought his new blast system from Blast-One, he knew it was going to be good. But how good.....?

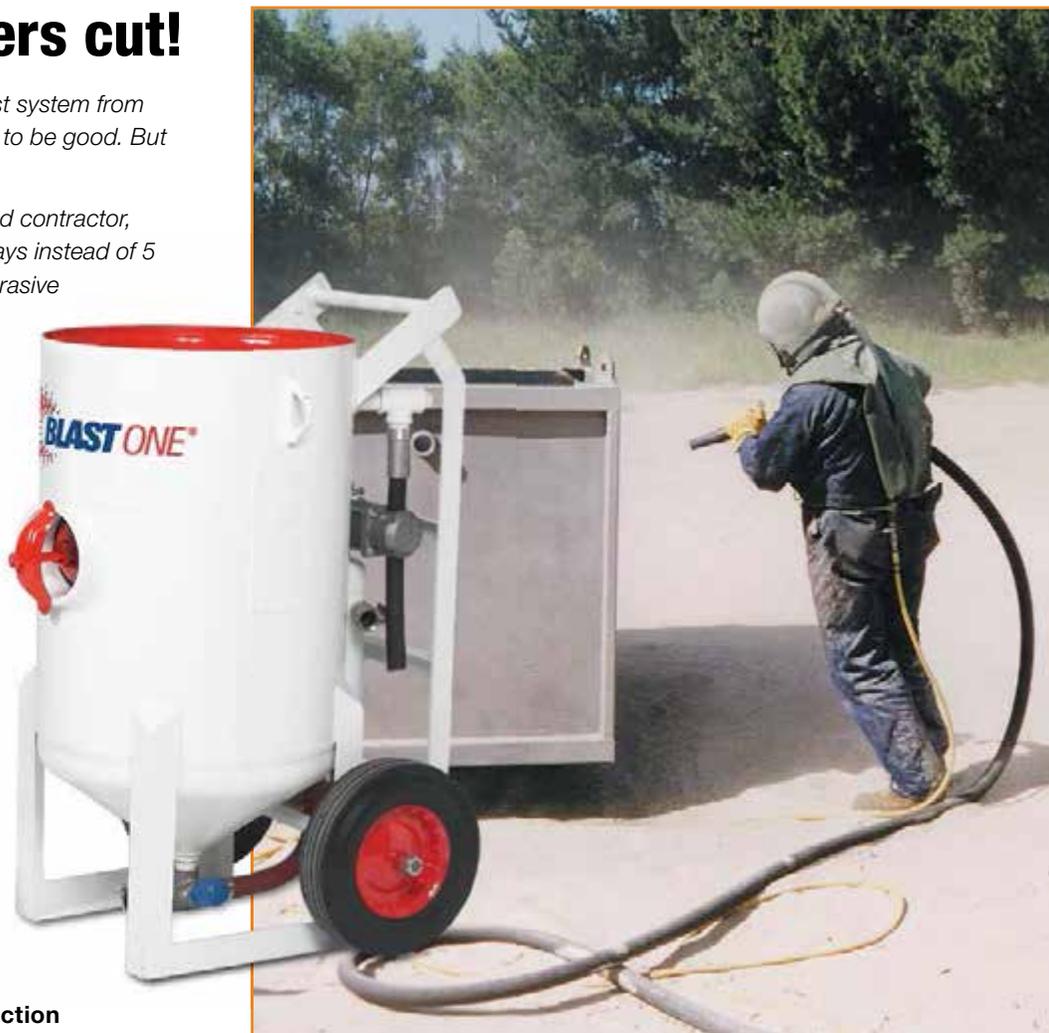
Well, when Eddie, an experienced contractor, finished his job 2 days early (3 days instead of 5 days) and used only 4 tons of abrasive (when he budgeted for 10) he was amazed!

By renewing your whole blasting system, you can expect the following outcomes:

- Use less abrasive
- Blast faster
- Experience less pressure losses and increase productivity by up to 34%.

After time, your blasting system starts to get inefficient due to wearing parts, loose fittings, bad joints etc – updating all of your Blasting System at the one time will mean less down time in the long run.

Now is a great opportunity to invest in a new High Production Package from Blast-One.



Increase your productivity with a new Blast System from Blast-One.

How does this new Blasting System increase productivity by up to 34%?



AUGUST/SEPTEMBER 2012 SPECIAL OFFER

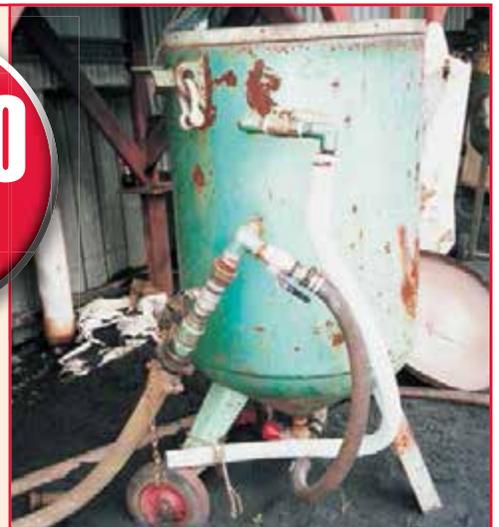
During August/September 2012, we will give you \$1,500 for any old Blast Machine, no matter how old it is.

Purchase a new 3.5 or 6.5 cu ft Blast-One Blasting System and we will give you a trade-in worth \$1,500 for your old system.

Offer available until September 30, 2012 only.

Call 1-877-725-2781 TODAY.

\$1,500
TRADE-IN



Moisture in your Abrasive Blasting System can ruin your job

Cool, Clean and Dry Air helps to achieve a problem free blasting process

Where does the excess moisture come from?

The air all around us contains water vapor – usually expressed as Relative Humidity (RH%). The higher the RH, the more water vapor is held by the air we breathe.

When your air compressor takes this air and compresses it to say 100psi, it has to suck in 7 cu ft of free air to make 1 cu ft of compressed air! So you've got 7 times more moisture in any volume immediately! Compressors generate heat by compression, so the air is hot and the moisture will stay suspended as vapor. However, as it cools down – in the hoses and in your blast machines – it condensates into real water. This is what causes the main problem – especially when it stops your abrasive flowing easily.

Conserve your energy

Remember, wet air is also heavier air and you can be using around 15% of your energy in carrying moisture through the system – wasted energy that should be used propelling abrasive at the substrate! This is why specialist operators claim that clean, dry air blasts 15% faster using an AirPrep™.

Have control over your costs

Compressed air is costly. Fuel is costly, so efficient use of every unit of compressed air is paramount to increase productivity and reduce costs. Also repairs and regular maintenance on compressors is a large expense for Specialist Blasters. An AirPrep™ system makes the most of your air investment by making the air work at the highest possible efficiency. A complete blasting system must have an AirPrep™ in the loop to achieve the optimum efficiency.



AirPrep™ – A high efficiency system to remove moisture from your compressed air.

The AirPrep™ works by Cooling, Condensing and Draining – leaving cool, clean DRY AIR!

Cool the air

The first step in removing moisture from warm compressed air involves cooling the air sufficiently to allow the water vapour to condensate into water droplets. Water droplets can then be removed from the air.

Condense the moisture

The AirPrep™ System has a unique design which efficiently removes moisture with negligible drop in compressed air pressure. This is very important (Every 10psi lost at the nozzle decreases production by 15%). The hot compressed air initially enters an inlet prefilter to remove oil and other contaminants before going through a large oversized horizontal after-cooler/heat exchanger. Here cooler ambient air is fan forced through thousands of aluminium cooling fins which cool the compressed air down to near that ambient temperature.

Drain the moisture

This cooler air now contains a much higher percentage of water droplets converted from water vapour. The compressed air then enters a large expansion chamber and is forced to rise through a stainless steel demister pad which assists in coalescing the remaining moisture. Water is drained regularly.

The air exits **Cooler, Cleaner and Drier** to your Blasting System.

FREE 30-DAY TRIAL

AirPrep™ Systems for SALE or RENTAL



The AirPrep (left) is a vital part of any blasting system.

Phone Blast-One to arrange a FREE TRIAL*

* Conditions apply

Is Steel Grit really what it is said to be?

Some experienced blasters don't think so!

Yes, Steel Grit has and always will have its place. It is clean, low dusting and you can recycle it – great! However it does have a few headaches attached:

- It rusts!
- It is very intolerant to moisture
- Consumption is very high – as an example, a #8 nozzle blasting with Steel Grit will consume around 2,000 lbs/hr. That is a lot to clean up and recycle!

How many times does Steel Grit recycle? Theoretically 200 times – in real life however, you can expect between 30-50 recycles.

Let's think quickly about why we are using Steel Grit – it's low dusting, clean and it recycles – all characteristics of a good abrasive. The question you may be asking is "Is there any other abrasive which has the same good characteristics without the problems?" Yes, there is! It is called **SpeedBlast**.

SpeedBlast High Performance Garnet from Blast-One has been proven to be more cost effective than Steel Grit for many years.

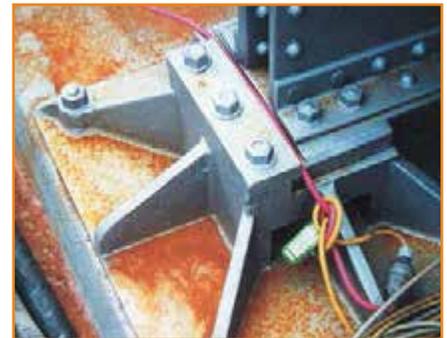
Why is SpeedBlast High Performance Garnet so good?

- It recycles
- It is low dusting
- It is clean
- It blasts around 30-40% faster than Steel Grit
- It is much less affected by moisture (it won't rust)
- Compared to Steel Grit, you use around 1/4 as much (1 ton instead of 4 ton) – that is a lot less to clean up!
- Multiple trials and comparisons have proven that SpeedBlast is *cheaper* to blast with than Steel Grit.



An identical piece of substrate blasted with Steel Grit and Garnet and left outside for three days – look how much rust is on the left (Grit) compared to the very small amount on the right (Garnet).

To download a recent report on Steel Grit vs Garnet, visit www.blast-one.com/steelgrit



Steel Grit that gets spilt on a freshly coated surface corrodes very quickly.



Spilt Steel Grit gets into every nook and cranny of a surface.



Blasters cleaning up abrasive can easily miss some – see the lumps under the coating?



Dismantled scaffolding can spill abrasive all over your freshly coated project.

ANOTHER SPEEDBLAST SUCCESS STORY

Bridge Project: Sydney Harbour



In October 2001, the Sydney Harbour Bridge obtained funding to re-paint the two approach spans – approximately 1,000,000 square feet of blasting & painting.

We had traditionally used SpeedBlast Garnet on the bridge, however all the so-called ‘industry experts’ convinced us that Steel Grit was absolutely the best way to go. We were removing old lead paint, had a very good quality full containment system, good access for equipment – ideal for Steel Grit apparently. We purchased an \$800,000 Steel Grit Recycler and the project started.

Initially it went well – however there was a few things we found that surprised us – we could only get 15-20 recycles from Steel Grit – way less than the 50-200 which we had been promised! Also – we were spending 4x the amount of time cleaning up than what we had allowed for! This was narrowed down to that we needed 20 lbs per ft² for Steel Grit, but only 4 lbs per ft² with Garnet!

“Instead of taking 4 hrs to clean up from 8 hrs of blasting, this reduced to under 1 hr!”

After around 6 months, our costs were significantly over budget – blasting cost per ft² was averaging out to \$4.00-\$5.00/ft, plus we were experiencing significant downtime due to moisture leaking through the containment which was causing the steel grit to rust & clump. We decided to change back to SpeedBlast Garnet.

Instead of taking 4 hrs to clean up from 8 hrs of blasting, this reduced to under 1 hr! We could also obtain a white metal blast much faster. After a few months, we calculated our total blasting costs had reduced back within budget to around \$2.50/ft. Since 2003 until now, we have strictly used SpeedBlast Garnet on the bridge for all blasting, with great success.

Waruna – Bridge Superintendent, Sydney

ANOTHER SPEEDBLAST SUCCESS STORY

Blast Room Application: Steel Fabricator, Michigan



I have been blasting for 25 years and I have NEVER used an abrasive as fast and versatile as SpeedBlast. If you aren't using it, you should be.

We were recently introduced to SpeedBlast and tried it in our portable pot to see how it would perform. After blasting just one piece of equipment (Caterpillar 950 Loader), we were convinced that SpeedBlast could live up to the claims made by Blast-One.

“I was able to clean new, 1/4 inch plate steel to SP5 white metal at a rate of 1 square foot every 6 seconds.”

This stuff is FAST. It is aggressive on everything we have thrown it at. Paint, rust and mill-scale are no match for SpeedBlast. We have since dumped the steel grit from our fixed blasting equipment and replaced it with SpeedBlast.

In a little speed test I set up in our blast booth, I was able to clean new, 1/4 inch plate steel to SP5 white metal at a rate of 1 square foot every 6 seconds. Do the math.....that's 600 sq ft an hour with a #5 nozzle and 395 cfm of air.

Brian – Fabricator, Michigan

Is your blasting area safe to work in?

Is your equipment safe to work with and fit for use?

These things are generally taken for granted, make no mistake – this can be a very dangerous industry to work in. Air and abrasive at 100psi (419 mph), potential air leaks at couplings or hose.....the list goes on! Nearly all accidents that have occurred in the blasting industry could have been avoided if safety precautions were adhered to, or proper maintenance of equipment was checked and acted upon on a regular basis.

As a blasting contractor, you have an obligation to ensure that you and/or your blasters work in a safe environment with well maintained equipment. Severe penalties exist if injuries are caused due to negligence by the business owner or contractor.

Because of the nature of the blasting industry, it is imperative that regular daily safety and equipment checks are done to alleviate potential problems. 'I'll fix that tomorrow' is not satisfactory.

Before work begins each day, check all your equipment – is it safe to work with and fit for use? Check the work area – is it a safe environment to work in and safe for other workers in the surrounding area? These checks don't take that long and are necessary to avoid any accidents or equipment failure that can cause serious injury, or even death.

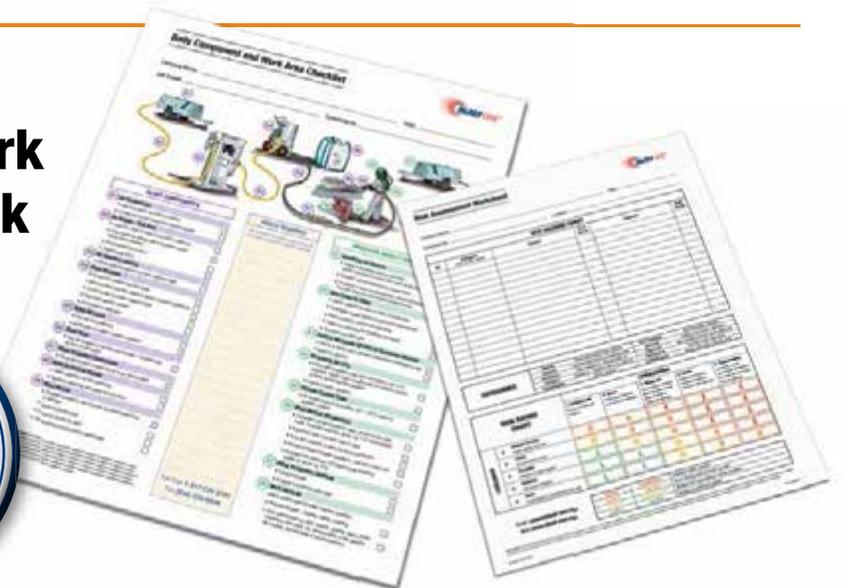
Call Blast-One for more details – **1-877-725-2781**.



Ensure your blasting work area is clear to work in and safe.

Blast-One has released a 'Daily Component and Work Area Checklist' and a 'Risk Assessment Worksheet'.

Supplied in a pad format, this will be an asset to have – just check or cross the appropriate boxes on the front sheet (Daily Component and Work Area Checklist) and fill out the Risk Assessment Worksheet on the reverse side.



Send your details via Phone, Email or our Website to receive an introductory FREE pad today!

Phone **1-877-725-2781** Email **sales@blast-one.com** Web **www.blast-one.com/checklist**

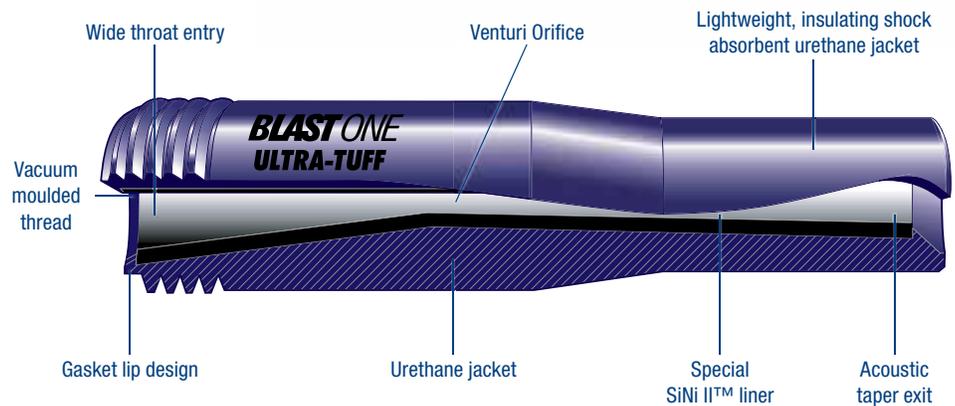
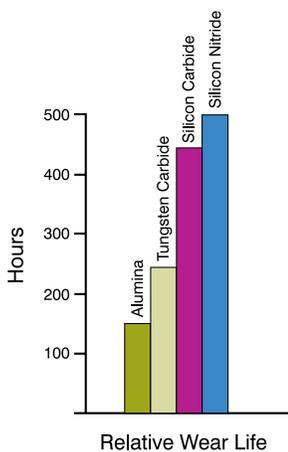
Please note: The details shown on these forms are for general information only – please use your own specifications and requirements pertaining to your business as necessary.

Ultra-Tuff™ nozzles from Blast-One have stood the test of time

The long wearing, robust, lightweight, efficient Blast Nozzle for the professional blaster.

As the name suggests, the Ultra-Tuff™ nozzle is a robust nozzle that will outlast its rivals and give you the satisfaction in knowing it has been tested extensively to become the number one choice in blasting nozzles. The Ultra-Tuff™ nozzle – a highly recommended and important part of your blasting unit.

The Ultra-Tuff™ nozzle achieves maximum performance with the Venturi design characteristics. With this design, the Air/Abrasive mixture is accelerated and gives a larger, more even blast coverage for increased productivity. This is one reason that experienced blasters recommend the Blast-One Ultra-Tuff™ nozzle with a tough, long wearing Silicon Nitride II (SiNi II) liner. It has proven to be the best 'value for money' nozzle around.



Make the right nozzle choice

To gain the highest efficiency when blasting, you must choose the right nozzle so your maximum air velocity to carry the abrasive is achieved. To gain maximum efficiencies and for ergonomics, the application, robustness and weight must be considered when choosing a nozzle. The Ultra-Tuff™ nozzle excels with these considerations.

What size orifice?

A critical selection criteria is the choice of the nozzle bore, the size of the orifice – this is probably the most important choice to be made. If you choose a nozzle with a large orifice, and you only have low pressure at the nozzle, there will be insufficient energy to force the abrasive out. To achieve the best possible efficiency, the correct amount of abrasive out, at the correct pressure, is a balancing act – so there is a compromise.

Call Blast-One to request a FREE TRIAL on Ultra-Tuff nozzles – 1-877-725-2781

August/September Specials



Battery Operated Hose Cutter



- This hose cutter tool cuts clean and square – essential for a good airtight coupling fit.
- Cuts rubber hoses up to 2½” outside diameter.

\$275

Dust Collector Filter Cartridges



- Blast-One stock a full range of cartridges for Dust Collection.
- High Filtration Efficiency – excellent prices.

See Blast-One Catalog page 184 for more information.

NEW PRECISION WET FILM GAGES

**Special Introductory Offer for August & September:
We will give you a free pack of 10
to try these new Precision Gage's out!**



- Use these high quality WFT Film Combs to measure the thickness of paint that has just been applied.
- 1 - 80 Mils range

See Blast-One Catalog page 249 for more information.

**Call 1-877-725-2781 or visit our website at
www.blast-one.com/freewftg for your
FREE PACK of 10!**

Leather Fronted Blasting Suit

30% OFF



- Here's a pair of overalls made specially for blasters!
- Heavy duty leather at the front to withstand abrasive rebound with comfortable breathable cotton at the back. Available in a range of sizes.

See Blast-One Catalog page 155 for more information.

NEW Nova 3 Blast Helmet



- Combines breakthrough protection technology with advanced comfort and functionality.
- Designed to optimize safety and productivity, and to minimize worker downtime.

Visit www.blast-one.com/nova3

Airless Hose



- For all your high pressure airless spray hoses – call Blast-One.
- High quality in a full range of pressure ratings.

See Blast-One Catalog page 299 for more information.

Blasting & Painting Reference Guide

**Do you have the
Blast-One Catalog?**



An absolute must-have that features over 250 new products, money saving ideas and easy ordering for over 3000 items.

**Normally \$125
FREE**

The Blast-One Guarantee

We will offer a 30-Day Money Back or Replacement Guarantee on any products you are not fully satisfied with.



2400 Landmark Way, Columbus, OH 43219

Toll free **1-877-7 BLAST 1**

Tel **(614) 476-3000** Fax **(614) 476-6939**

Email **sales@blast-one.com** Web **www.blast-one.com**